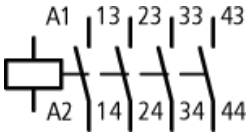
MOELLER

Type: **DILER–40(230V50HZ,240V60HZ)**
Article No.: **051759**

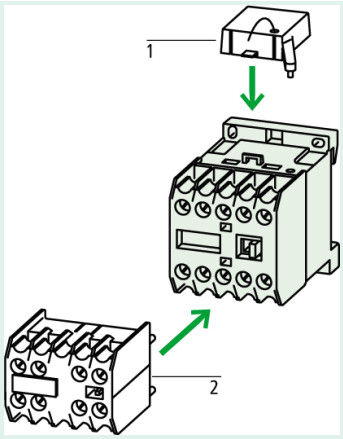
Ordering information			
Connection technique			Screw terminals
Type of current AC/DC			AC operation
Contacts M = Make			4 M
Rated operational current AC–15 220 V 230 V 240 V	I_e	A	6
Rated operational current AC–15 380 V 400 V 415 V	I_e	A	3
Conventional thermal current	I_{th}	A	10
Distinctive number and version of combination			40 E

Contact sequence



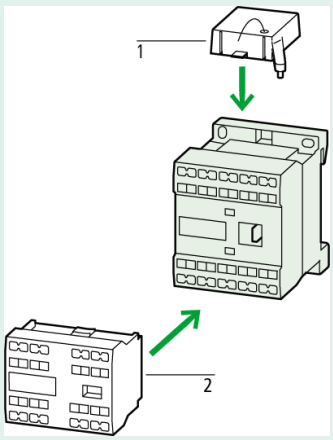
Notes concerning the product group

With screw terminals:



Accessories	*Page*
1 Suppressor	→ 010320
2 Auxiliary contact module	→ 010240
Further actuating voltages	→ 066169

With springloaded terminals:



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Contact numbers to EN 50011

Coil terminal markings to EN 50005

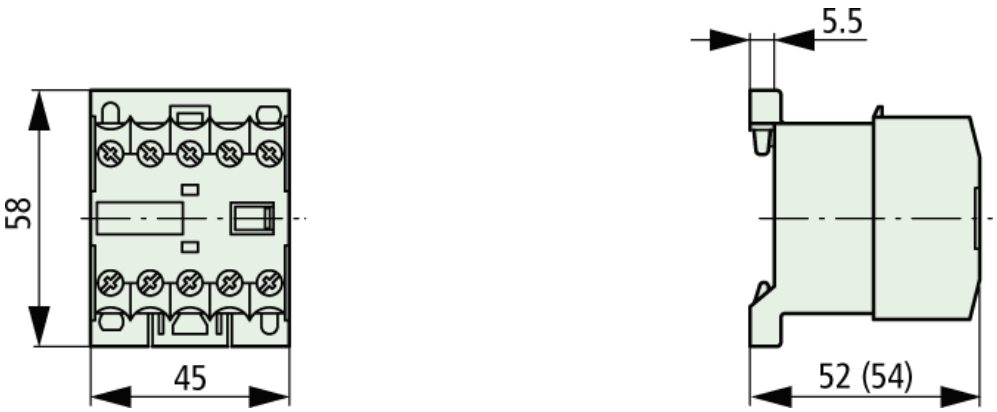
General			
Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	× 10^6	10
DC operated	Operations	× 10^6	20
Maximum operating frequency			
Maximum operating frequency	Operations/h		9000
Climatic proofing			Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclic, to IEC 60068–2–30

Climatic proofing			Damp heat, constant, to IEC 60068–2–78; Damp heat, cyclical, to IEC 60068–2–30
Ambient temperature			
Open		°C	–25/50
Enclosed		°C	–25/40
Mounting position			
Mounting position			As required, except vertically A1/A2 at the bottom
Mechanical shock resistance (IEC/EN 60068–2–27)			
Half–sinusoidal shock, 10 ms			
Basic unit with auxiliary contact module			
Make contact		g	10
Break contact		g	8
Protection type			IP20
Protection against direct contact when actuated from front (IEC 536)			Finger– and back–of–hand proof
Weight			
AC operated		kg	0.17
DC operated		kg	0.2
Terminal capacities			
Screw terminals			
Solid		mm^2	1 × (0,75 – 2,5) 2 × (0,75 – 2,5)
Flexible with ferrule		mm^2	1 × (0,75 – 1,5) 2 × (0,75 – 1,5)
Solid or stranded		AWG	18 – 14
Terminal screw			M3.5
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 × 5.5 1 × 6
max. tightening torque		Nm	1,2
Spring loaded terminals			
Solid		mm^2	1 × (1 – 2,5) 2 × (1 – 2,5)
Flexible with or without ferrule DIN 46 228		mm2	1 × (1 – 2,5) 2 × (1 – 2,5)
Solid or stranded		AWG	1 × (16 – 14) 2 × (16 – 14)
Standard screwdriver		mm	0.6 × 3.5
Contacts			
Interlocked opposing contacts to ZH 1/457, including auxiliary contact module			Yes
Rated impulse withstand voltage	U_{imp}	V AC	6000
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V AC	690
Rated operational voltage	U_e	V AC	600
Safe isolation to VDE 0106 Part 101 and Part 101/A1			
between coil and auxiliary contacts		V AC	300

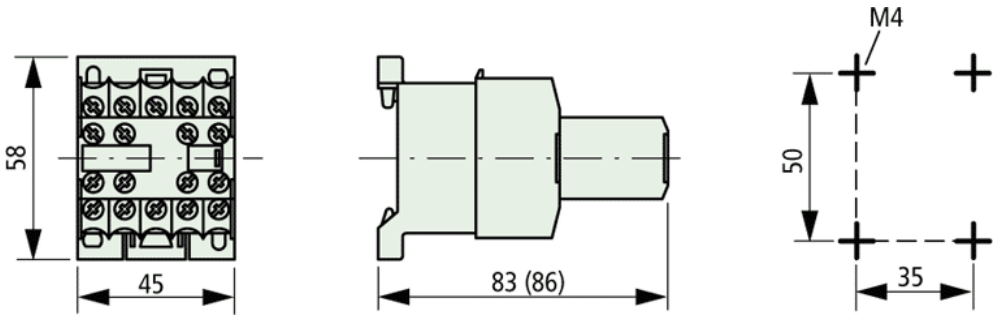
between the auxiliary contacts		V AC	300
Rated operational current			
AC–15			
220/240 V	I_e	A	6
380/415 V	I_e	A	3
500 V	I_e	A	1,5
DV–13			
DC–13 L/R f 15 ms			
Contacts in series:			
1	24 V	A	2,5
2	60 V	A	2,5
3	110 V	A	1,5
3	220 V	A	0,5
Control circuit reliability (at U_e = 24 V DC, U_{min} = 17 V, I_{min}= 5.4 mA)	Failure rate	»	–8, < one failure at 100 million operations
Conventional thermal current	I_{th}	A	10
Component lifespan at U_e = 240 V			
Short–circuit rating without welding			
Maximum overcurrent protective device			
220/240 V		PKZM0	4
380/415 V		PKZM0	4
Short–circuit protection Maximum fuse			
500 V		A gG/gL	6
500 V		A fast	10
Current heat loss at I_{th}			
AC operated		W	0,2
DC operated		W	0,3
Magnet systems			
Voltage tolerance			
AC operated			
Single–voltage coil 50 Hz and dual–voltage coil 50 Hz, 60 Hz	Pick–up	× U_s	0,8 – 1,1
Dual–frequency coil 50/60 Hz	Pick–up	× U_s	0,85 – 1,1
DC operated			
Pick–up voltage	Anzug	× U_s	0,85 – 1,3
Without auxiliary contact module (40 °C)	Pick–up	× U_c	0,7 – 1,3
Power consumption			
Single–voltage coil 50 Hz and dual–voltage coil 50 Hz, 60 Hz	Pick–up	VA	25
Single–voltage coil 50 Hz and dual–voltage coil 50 Hz, 60 Hz	Pick–up	W	22
Single–voltage coil 50 Hz and dual–voltage coil 50 Hz, 60 Hz	Sealing	VA	4,6
Single–voltage coil 50 Hz and dual–voltage coil 50 Hz, 60 Hz	Sealing	W	1,3
Dual–frequency coil 50/60 Hz at 50 Hz	Pick–up	VA	30

Dual–frequency coil 50/60 Hz at 50 Hz	Pick–up	W	26
Dual–frequency coil 50/60 Hz at 50 Hz	Sealing	VA	5,4
Dual–frequency coil 50/60 Hz at 50 Hz	Sealing	W	1,6
Dual–frequency coil 50/60 Hz at 60 Hz	Pick–up	VA	29
Dual–frequency coil 50/60 Hz at 60 Hz	Pick–up	W	24
Dual–frequency coil 50/60 Hz at 60 Hz	Sealing	VA	3,9
Dual–frequency coil 50/60 Hz at 60 Hz	Sealing	W	1,1
DC operated	Pull–in = sealing	W	2,6
Duty factor		% DF	100
Switching times at 100 % U_c (approximate values)			
AC operated Closing delay		ms	14 – 21
AC operated Make contact Opening delay		ms	8 – 18
AC operated With auxiliary contact module Max. closing delay		ms	45
DC operated Closing delay		ms	26 – 35
DC operated Make contact Opening delay		ms	15 – 25
DC operated With auxiliary contact module Max. closing delay		ms	70
Notes			
			Making and breaking conditions to DC–13, time constant as stated See transparent overlay "Fuses" for time/current characteristics (please enquire) Smoothed DC or three–phase bridge rectifier
Dimensions			
			DILER–...
			DILER–... + ...DILE

Dimensions



Dimensions



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